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REISSUE PATENT APPLICATION TRANSMITTAL											
Address to:	Attorney Doc	ket No.	Micron-P042RE	0							
	First Named I	Inventor	Tianhong Zhang								
Mail Stop Reissue	Original Pater	nt Number	US 6,366,266 B1 0.4								
Commissioner for Patents P.O. Box 1450	Original Patel (Month/Day/\		April 2, 2002								
Alexandria, VA 22313-1450	Express Mail	Label No.	EV 318664088 US ្ច								
APPLICATION FOR REISSUE OF: (Check applicable box)    X   Utility Pa	atent 🔲	Design Paten	t Plant Pate	ent =							
APPLICATION ELEMENTS (37 CFR 1.173)		ACCOMPANYING APPLICATION PARTS									
Fee Transmittal Form (PTO/SB/56) (Submit an original, and a duplicate for fee processing)  Applicant claims small entity status. See 37 CFR 1.27.  Specification and Claims in double column copy of pate (amended, if appropriate)  Drawing(s) (proposed amendments, if appropriate)  Reissue Oath/Declaration (original or copy) (37 C.F.R. 1.175) (PTO/SB/51 or 52)  Power of Attorney  Original U.S. Patent currently assigned? (If Yes, check applicable box(es))  Written Consent of all Assignees (PTO/SB/53)  X 37 C.F.R. 3.73(b) Statement (PTO/SB/96)  CD-ROM or CD-R in duplicate, Computer Program (Applicable, all of the following are necessary)  a. Computer Readable Form (CFR)	ent format	ACCOMPANYING APPLICATION PARTS  10. X Statement of status and support for all changes to the claims. See 37 CFR 1.173(c).  11. X Original Patent Grant  X Ribboned Original Patent Grant  Statement of Loss (PTO/SB/55)  12. Foreign Priority Claim (35 U.S.C. 119) (if applicable)  X Information Disclosure Statement (IDS)/PTO-1449 Citations  13. English Translation of Reissue Oath/Declaration (if applicable)  15. X Preliminary Amendment  16. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  17. Other:									
b. Specification Sequence Listing on:  i CD-ROM (2 copies) or CD-R (2 copies); or  ii paper	į	· W	· .								

18. CORRESPONDENCE ADDRESS										
Cı	ustomer Number.			OR X	Correspond	dence address below				
lame	Hugh R. Kress									
delmon	5718 Westheimer			<del>40.0</del>						
Address –	Suite 1800									
City	Houston		State	TX	Zip Code	77057				
Country	U.S.	Telephone	713.266.	5593	Fax	713,266,5169				

This collection of information is required by 37 CFR 1.173. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop Reissue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Registration No. (Attorney/Agent)

Date

36,574

November 12, 2003

Hugh R. Kress

PTO/SB/56 (06-03)
Approved for use through 01/31/2004. OMB 0651-0033
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REISSUE APPLICATION FEE TRANSMITTAL FORM										Mi	Micron-P042RE				
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November 12, 2003								Hugh R. Kress							
		Date					Signature of Applicant, Attorney or Agent of Record								
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Registration Number, if applicable						Typed or printed name									

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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent No. 6,366,266

For: METHOD AND APPARATUS FOR

> PROGRAMMABLE FIELD **EMISSION DISPLAY**

Inventors:

Tianhong Zhang and

Zhonghi Xia

Atty Dkt:

Micron-P042RE

Mail Stop Reissue Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450  $\omega$ Issued from Appln. Serial No:

09/388.671

Filed:

September 2, 1999

Issued:

April 2, 2002

Group Art Unit (anticipated): 2674

Prior Examiner: Duc Q. Dinh

703.306.5412

"EXPRESS MAIL" MAILING LABEL

EXPRESS MAIL NO.: <u>EV 318664088 US</u>

Pursuant to 37 C.F.R. § 1.10, I hereby certify that I am personally depositing this paper or fee with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above in a sealed envelope (a) having the above-numbered Express Mail label and sufficient postage affixed, and (b) addressed to Mail Stop Reissue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Printed Name

Hugh R. Kress

### REQUEST FOR FILING REISSUE APPLICATION

Sir:

Micron Technology, Inc. ("Assignee") hereby requests reissuance of the abovereferenced patent ("the '266 patent) pursuant to 35 U.S.C. § 251 et seq.

Accompanying this Request are the following papers:

- Copy of the '266 patent pursuant to 37 C.F.R. § 1.173(a)(1); (1)
- (2) Preliminary Amendment,
- (3) Statement of Status and Support for all Changes to the Claims; and
- (4) Reissue Application Fee Transmittal Form (Form PTO/SB/56) and associated fee payment.

If the fee payment associated with this Request or the Preliminary Amendment referenced above is missing or incorrect in amount, or if any other fees are determined to be due in connection with these submissions, the Commissioner, Assistant Commissioner, and/or the Director of the U.S. Patent & Trademark Office is/are authorized to charge Browning Bushman Deposit Account No. 02-4345, referencing matter Micron-P042US.

The following documents will be submitted upon their execution by the inventors or Assignee, as appropriate.

- (1) Reissue Application Declaration by the Inventors (Form PTO/SB/51);
- (2) Reissue Application: Consent of Assignee (Form PTO/SB/53);
- (3) Statement Under 37 C.F.R. § 3.73(b) (Form PTO/SB/96);

### Statement of Basis for Request

As noted in the attached Reissue Declaration by the Inventors (Form PTO/SB/51), the Assignee respectfully submits that the '266 patent is wholly or partially inoperative or invalid for at least two reasons:

- (1) The '266 patent does not name the proper combination of inventors. Such an error has been held to provide the requisite basis for requesting reissuance. See, Ex parte Scudder, 169 U.S.P.Q. 814 (Bd. App. 1971).
- (2) The '266 patent does not claim what the proper combination of inventors had the right to claim.

As set forth in the accompanying Reissue Application Declaration by Inventors (Form PTO/SB/51), the errors referred to above arose without any deceptive intention on the part of the applicants.

Respectfully submitted,

Date: 12 - NOV - 2003

Hugh R. Kress Reg. No. 36,574

BROWNING BUSHMAN P.C.

5718 Westheimer

**Suite 1800** 

Houston, Texas 77057 713.266.5593 (voice) 713.266.5169 (fax)

ATTORNEY FOR ASSIGNEE

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent No. 6,366,266

For: METHOD AND APPARATUS FOR

> PROGRAMMABLE FIELD **EMISSION DISPLAY**

Inventors:

Tianhong Zhang and

Zhonghi Xia

Atty Dkt:

Micron-P042RE

Mail Stop Reissue Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 § Issued from Appln. Serial No: 09/388,671

Filed:

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April 2, 2002

Group Art Unit (anticipated): 2674

Prior Examiner: Duc Q. Dinh

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Printed Name

Hugh R. Kress

### STATEMENT OF STATUS AND SUPPORT FOR CLAIMS **PURSUANT TO 37 C.F.R. § 1.73(c)**

Sir:

This paper accompanies a Request for Filing Reissue Application ("Request for Reissue") associated with the patent identified above ("the '266 patent). If the fee payment associated with that Request or this Statement is missing or incorrect in amount, or if any other fees are determined to be due in connection with these submissions, the Commissioner, Assistant Commissioner, and/or the Director of the U.S. Patent & Trademark Office is/are authorized to charge Browning Bushman Deposit Account No. 02-4345, referencing matter Micron-P042US.

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### Statement of Status and Support for All Changes to Claims:

Claims 56-63 are added to the '266 patent in a Preliminary Amendment accompanying the Request for Reissue, such that claims 1-63 are pending in the Reissue Application. Pursuant to 37 C.F.R. § 1.173(c), the Assignee respectfully submits that the Specification of the '266 patent fully discloses and supports claims 56-63.

In support of this assertion, Assignee provides the following reproduction of claims 56-63, with annotations added identifying by reference numeral elements described in the Specification of the '266 patent. It is believed that the Specification taken as a whole serves to support the claimed subject matter.

- 56. (new) A field emission display device (Abstract; Figure 18, reference numeral 10'; Specification, col. 8, line 24 through col. 9, line 8) comprising:
  - a photoelectric conversion device including a p-type substrate (12) defining an upper surface,
  - an n-type doped region (14) formed in said p-type substrate at said upper surface of said p-type substrate,
  - an n-type guard ring region (16) spaced from said n-type doped region and formed in said p-type substrate at said upper surface of said p-type substrate, and
  - an electrically conductive metallic film (22) formed over said upper surface of said p-type substrate, wherein said p-type substrate and said metallic film are arranged to define a metal-semiconductor Schottky barrier (Figure 18; Specification, col. 8, lines 56-60);
  - an electrically conductive grid structure (24);
  - an electrically conductive anode structure (30); and
  - an electron emitter (18) conductively coupled to said photoelectric conversion device, wherein said electron emitter and said grid structure are displaced

from said anode structure across a field emission region (Figure 18), and wherein said field emission region is defined in a vacuum.

- 57. (new) A field emission display device as claimed in claim 56 wherein said electron emitter is formed over said n-type doped region of said upper surface of said p-type substrate (Figure 18).
- 58. (new) A field emission display device as claimed in claim 57 wherein said electron emitter is formed integrally with said n-type doped region of said upper surface of said p-type substrate (Figure 12).
- 59. (new) A field emission display device as claimed in claim 56 wherein said emitter comprises a tip defining an emission apex (Figures 11-18).
- 60. (new) A field emission display device as claimed in claim 56 wherein said emitter comprises a plurality of tips defining respective emission apexes (*Specification*, col. 4, lines 41-47).
- 61. (new) A field emission display device as claimed in claim 56 wherein said metallic film is formed over at least a portion of said n-type doped region of said upper surface of said p-type substrate and over at least a portion of said n-type guard ring region of said upper surface of said p-type substrate (Figure 5, element 22).
- 62. (new) A field emission display device (Abstract; Figure 18, reference numeral 10'; Specification, col. 8, line 24 through col. 9, line 8) comprising:
  - a photoelectric conversion device (10; 10') including:
  - a p-type silicon substrate (12) defining an upper surface,
  - an n-type doped region (14) formed in said p-type silicon substrate at said upper surface of said p-type substrate,
  - an n-type guard ring region (16) spaced from and surrounding said n- type doped region and formed in said p-type silicon substrate at said upper surface of

said p-type substrate (Figure 18), and

- a platinum silicide metallic film (22) formed over said upper surface of said p-type substrate, wherein said p-type substrate and said metallic film are arranged to define a metal-semiconductor Schottky barrier, and wherein said metallic film extends over an interior circumferential portion of said guard ring region (Figure 5) and an exterior circumferential portion of said n-type doped region;
- an electrically conductive grid structure (24);
- an electrically conductive anode structure (30) including a phosphor screen (32); and
- a plurality of electron emitter tips (18) integrally formed with said n-type doped region and conductively coupled to said photoelectric conversion device via said platinum silicide metallic film (Figure 7), wherein said electron emitter tips and said grid structure are displaced from said anode structure across a field emission region, and wherein said field emission region is defined in a vacuum.
- 63. (new) A field emission display device (Abstract; Figure 18, reference numeral 10'; Specification, col. 8, line 24 through col. 9, line 8) comprising:
  - a photoelectric conversion device (10; 10') including
  - a p-type silicon substrate (12) defining an upper surface and a plurality of emitter tip profiles (18) including respective emission apexes.
  - an n-type guard ring region (16) spaced from and surrounding said plurality of emitter tip profiles and formed in said p-type silicon substrate at said upper surface of said p-type substrate, and
  - a platinum silicide metallic film (22) formed over said upper surface of said ptype substrate and said emitter tip profiles, wherein said p-type substrate and said metallic film are arranged to define a metal-semiconductor Schottky barrier, and wherein said metallic film extends over an interior

circumferential portion of said guard ring region (Figure 7);

- a silicon dioxide dielectric layer (26) formed over a portion of said metallic film spaced from said plurality of emitter tip profiles;
- an electrically conductive grid structure (24) separated from said metallic film and said substrate by said dielectric layer and arranged to define a portion of an emitter tip void spaced from and surrounding said plurality of emitter tip profiles; and
- an electrically conductive anode structure (30) including a phosphor coated screen (32), said anode structure being spaced from said grid structure and said plurality of electron emitter tip profiles to define a field emission region (Figure 7), wherein said field emission region is defined in a vacuum.

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#### CONCLUSION

It is believed that each of the claims 56-63 added in this Reissue Application is fully supported by the Specification of the '266 patent, and that the application as a whole is in proper form and condition for reissuance of the '266 patent including claims 56-63.

Respectfully submitted,

Date: 12 - NOV - 2003

Hugh R. Kress Reg. No. 36,574

**BROWNING BUSHMAN P.C.** 

5718 Westheimer

**Suite 1800** 

Houston, Texas 77057 713.266.5593 (voice) 713.266.5169 (fax)

ATTORNEY FOR ASSIGNEE